

C L A I M S

Subcl
1. Headset for connection to a telephone apparatus, said headset comprising a capsule (2) with a built-in receiver (11), and on which there is mounted a boom (7) with a microphone (10), said headset being connected to a telephone apparatus by means of a wire with associated jack connection (31), and with which headset there are associated amplification and adjustment circuits for both the microphone (10) and the receiver (11), manual operation elements for the setting of said amplification and adjustment circuits, and switch elements for changeover depending partly on the type of microphone in the telephone apparatus and partly on the polarity of the telephone apparatus' microphone and receiver wires, c h a r a c t e r i z e d in that the amplification and adjustment circuits are built into the capsule (2), and in that the manual operation elements (14, 15) are placed on the capsule, and that the switch elements consist of a multi-position switch (32) which is placed in the capsule in such a manner that it is accessible for operation.

2. Headset according to claim 1, c h a r a c t e r i z e d in that the headset comprises an operating button (14) for a switch (21) for the headset microphone, and operating elements (15) for the setting of the sound level from the headset receiver, said operating button (14) and operating elements (15) also serving as manual operating elements for the setting of said amplification and adjustment circuits.

3. Headset according to claim 1 or 2, c h a r a c t e r i z e d in that the headset contains a micro-controller (35) which transmits control signals to said amplification and adjustment circuits, said control signals being formed depending on settings undertaken by means of the manual operating elements (14, 15).

4. Headset according to claim 1, 2 or 3, c h a r a c t e r i z e d in that the amplification and adjustment circuits for the headset receiver (11) comprise a filter circuit (46) in the form of a band-pass filter, the frequency band of which comprises frequencies which are normally contained in human speech, preferably a frequency band which is centred around approx. 800 Hz.

5. Headset according to claim 4, characterized in that the filter circuit (46) can be coupled in and de-coupled by means of the manual operating elements (14, 15).

6. Headset according to one or more of the claims 1 – 5, characterized in that the amplification and adjustment circuits for the headset receiver (11) comprise a voice-activated switch (45) which reduces the amplification in the amplification circuits for the headset receiver when the signal which is transmitted in these circuits lies below a given level.

7. Headset according to claim 6, characterized in that the voice-activated switch (45) can be coupled in and de-coupled from the amplification and adjustment circuits for the headset receiver (11) by means of the manual operating elements (14, 15).

8. Headset according to one or more of the claims 1 – 7, characterized in that the amplification and adjustment circuits for the headset receiver (11) comprise a detector (49) which detects the level of the received signal and which, if this level lies below a given value in excess of a given time limit, gives rise to a reduction of the amplification in an output amplifier (47) in the amplification circuits for the headset receiver, or possibly results in the closing down of the output amplifier (47).

9. Headset according to one or more of the claims 1 – 8, characterized in that the amplification and adjustment circuits for the headset microphone (10) comprise a voice-activated switch (22) which reduces the amplification in the amplification circuits for the headset microphone when the signal which is transmitted in these circuits lies below a given level.

10. Headset according to one or more of the claims 1 – 9, characterized in that the amplification and adjustment circuits for the headset comprise a signal circuit (37) which, depending on the state of the capacity of a battery (34) built into the headset and/or the state of the headset set with the manual operating elements (14, 15), can emit signals which can be heard in the headset receiver (11).